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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/769,579	01/25/2001	Hector F. DeLuca	960296.95700	4517
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Jean C. Baker Quarles and Brady LLP 411 East Wisconsin Avenue			EXAMINER	
			SHARAREH, SHAHNAM J	
Milwaukee, W	1 53202		ART UNIT	PAPER NUMBER
			1617	
			DATE MAILED: 05/15/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Defluce Examiner Shahnam Sharareh 1617								
Examiner	٠.		Application No.	Applicant(s)				
Shahnam Sharareh 1617			09/769,579	DELUCA ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edemics of team rays be available under the provision of 3 °CFR 1.36(e). In no event, however, may a reply be timely filed she in 30 °C 90 MONTH(S) time the maining date of this communication. Failure 10 (6) MONTHS time the maining date of this communication of the provision of the		Offic Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. after SIX (e) MONTHS from the mailing date of this communication. If the period for engly specified above, the maximum statutory period with a statutory minimum of biny (30) days will be considered timely. If No period for engly a specified above, the maximum statutory period will apply and will easing SIX (e) MONTHS from the mailing date of this communication. If No period for engly a specified above, the maximum statutory period will apply and will easing SIX (e) MONTHS from the mailing date of this communication. If No period for engly a specified above, the maximum statutory period will apply and will easing SIX (e) MONTHS from the mailing date of this communication. Any month of the specified above, the maximum statutory period will apply and will easing SIX (e) MONTHS from the mailing date of this communication, even if smoly filed, may reduce any assumed patient term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 25 February 2002. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) □ is/are allowed. 6) □ Claim(s) □ is/are allowed. 6) □ Claim(s) □ is/are allowed. 6) □ Claim(s) □ is/are allowed. 7) □ Claim(s) □ is/are allowed. 8) □ Claim(s) □ is/are allowed. 9) □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. 10) □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. 11 □ proposed drawing correction filed on □ is: a) □ approved b) □ disapproved by the Examiner. 12 □ The proposed drawing correction filed on □ is:								
THE MAILING DATE OF THIS COMMUNICATION. Extentions of time may be available under the provisions of 37 CPR 1.13(e). In no event, however, may a raply be timely filled after SIX (6) MONTHS from the mailing date of this communication. If the period or party specified shows a lase shan think (20 days, a righe publish the statutory maintenance in their, 200 days and the considered timely. Faller to restly within the state or extended period for resply within the statutory maintenance in their, 200 days will be exceeded the statutory maintenance. Faller to resply within the state or extended period for resply within the state of the communication. Faller to resply within the set or extended period for resply with y statute, cause the application to become ABANDONED (35 U.S. C. § 13). Any reply rescued by the Office later than three months after the mailing date of this communication, several timely filted, may reduce any several resplace to the communication. See 37 CFR 1.79(e). Status 1)								
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3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:	2) Notice		5) Notice of I					

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DETAILED ACTION

Amendment filed on February 25, 2002 has been entered. Claims 1-10 are pending.

Response to Arguments

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over EURODIAB (PTO-892, filed 10/10/01) in view of Mathieu et al (IDS, Paper No. 4) Mauricio et al (PTO-892, filed 10/10/01) and DeWille et al (US 5,817,351; PTO-892, filed 10/10/01).

Applicant's arguments with respect to this rejection have been fully considered but are not found persuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In the instant case, the rejection of claims 1-5 are based on combined teachings of the cited references not the teachings of anyone individual reference.

Applicant arguments that the cited reference are describe ordinary Vitamin D is noted, but not persuasive, because the term vitamin D generically describes all steroids that exhibit qualitatively the biological activity of cholecalicfeol (see Dictionary of Biochemistry Molecular biology, 2nd ed. 1991, John Willey & Son). Accordingly, 1 α-

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hydroxyvitamin D is encompassed by such definition of vitamin D and additionally is well recognized in the art as a potent analog of vitamin D (see Jones, Exhibit A of the amendment, page 974, 1st col, and its reference 41).

Further, Applicant's assertion that the cited art describe "ordinary vitamin D" is not understood, as all vitamin D within its generic meaning are expected to provide similar clinical benefit. In fact, Muricio explicitly teaches the beneficial use of the instant species with the genus of vitamin D; therefore using vitamin D for delaying the onset of diabetes is well established. Examiner does not dispute that various vitamin D analogs may provide different degree of efficacy in vivo, however, the instant claims are not directed to any different degree of efficacy, and such argument would not be commensurate with the scope of the pending claim.

As stated in the previous Office Action, Paper No. 5, the teachings of EURODIAB, Mathieu and Muricio et al collectively provides the understanding in the art that vitamin D and analogues thereof, including 1, α -hydroxyvitamin D₃, improves the symptoms of autoimmune diseases and diabetes (see EURODIAB, abstract; Mathieu, pp 552-556; Muricio et al pp 64, 1st col, 2nd paragraph). DeWille provides that all vitamin D such as 1 α vitamin D can be prepared and used orally, thus, it would have been obvious to one of ordinary skill in the art at the time of invention to use 1 α vitamin D for diabetes as well. Accordingly, the combination of cited references render the instant claims obvious.

Furthermore, an obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art to make a claimed

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compound, in the expectation that compounds similar in structure will have similar properties. In re Payne, 606 F.2d 303, 313, 203 USPQ 245, 54 (CCPA 1979). In the instant case, the useful ness of generic vitamin D encompassing 1- α hydroxyvitamin D3 is well established by EURODIAB. Mathieu used 1,25 α dihydroxyvitamin D3 for preventing insulitis. Maricio specifically recites similar type utility with 1- α hydroxyvitamin D3, thus, one of ordinary skill in the art would have had a reasonable expectation to observe similar benefits from other structurally similar compounds including 1 α -hydroxyvitamin D3. Finally, route of administration is a matter of design choice and well within purview of the ordinary artisan.

Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Al-Qadreh et al (PTO-892, filed on 10/10/01) in view of DeWille et al (US 5,817,351; PTO-892 filed on 10/10/01).

Applicant's arguments with respect to this rejection have been considered but are not found persuasive.

Applicant argues that the instant claims are directed towards oral administration and none of the references teach the oral administration of 1- α hydroxyvitamin D3 for treament of diabetes.

Again Examiner states that the rejection is based on the combination of teachings of the cited references, not their individual teachings. Al-Qadreh teaches that the instantly claimed compounds are effective in treating insulin-dependent diabetes mellitus. Accordingly, Al-Qadreh principally suggest that higher systemic serums of the instant compounds improves diabetes associated symptoms such as osteopoenia.

regardless of route of administration. DeWille teaches that Vitamin D 3 can be administered orally to provide its systemic effects. Thus, it would have been obvious to one of ordinary skill in the art at the time of invention armed with the combined teachings of Al-Qadreh and DeWillie to have expectation of successful results if Vitamin D3 is administered orally.

Conclusion

No claims are allowed.

Examiner noted that recitations such as "delaying the onset of diabetes," "the onset of diabetes or diabetes symptoms is slowed," "reducing the severity of diabetes symptoms," or "diabetes symptoms are lessened" in claims 1 and 6 appear to be of relative nature and do not clearly define the scope of the claims. Clearing the scope of such limitations could advance the prosecution of the claims over the cited prior art.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh, PharmD whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minna Moezie, JD can be reached on 703-308-4612. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

SS

May 10, 2002